BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: improvements to drains and culverts at Kodigehall Ward no 08

								Est Cost:	65.00lakhs
Sl. No.	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	yajman hanumaiyya layout	Cum							
	5th cross		2	110.00	0.95	0.90	188.10		
	Anganwadi road(adjoining road)		1	73.00	0.95	0.90	62.42		
	connecting drain upto govt school		1	30.00	1.10	0.90	29.70		
	Muneshwara block main road		1	388.00	1.10	0.90	384.12		
	Culverts		3	6.50	2.00	1.05	40.95		
	Culverts		6	5.00	2.00	1.05	63.00		
							768.29	186.92	**143607.83**
	Basic rate	**82**							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	**100**							
	Area Weightage 6%	**4.92**							
	Final Rate	**186.92**							
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	yajman hanumaiyya layout								
	5th cross		2	110.00	0.95	0.150	31.35		
	Anganwadi road(adjoining road)		1	73.00	0.95	0.150	10.40		
	connecting drain upto govt school		1	30.00	1.10	0.150	4.95		
	Muneshwara block main road		1	388.00	1.10	0.150	64.02		
	Culverts		3	6.50	2.00	0.150	5.85		
	Culverts		6	5.00	2.00	0.150	9.00		
							125.57	5348.76	**671657.17**
	Basic rate	**5046**							
	Area Weightage 6%	**302.76**							
	Final Rate	**5348.76**							
3	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)								
	Culverts	Cum	6	6.5	0.60	0.80	18.72		

Sl No.	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Culverts	Cum	12	5	0.60	0.80	28.80		
							47.52	4438.22	**210904.21**
	Basic rate	**4187.00**							
	Area Weightage 6%	**251.22**							
	Final Rate	**4438.22**							
4	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)								
	Culverts	Sqm	6	6.50	--	0.80	31.20		
	Culverts	Sqm	12	5.00	--	0.80	48.00		
							79.20	102.82	**8143.34**
	Basic rate	**97**							
	Area Weightage 6%	**5.82**							
	Final Rate	**102.82**							
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
	Coping	Cum							
	Culverts		6	6.50	0.60	0.100	2.34		
	Culverts		12	5.00	0.60	0.100	3.60		
	Approach CC	Cum							
	5th cross	0.5	2.00	110.00	0.300	0.100	3.30		
	Anganwadi road(adjoining road)	0.5	1.00	73.00	0.300	0.100	1.10		
	connecting drain upto govt school	0.5	1.00	30.00	0.300	0.100	0.45		
	Muneshwara block main road	0.5	1.00	388.00	0.300	0.100	5.82		
	Culverts	0.5	3.00	6.50	0.300	0.250	0.73		
	Culverts	0.5	6.00	5.00	0.300	0.250	1.13		
							18.46	5767.46	**106467.31**
	Basic rate	**5441.00**							
	Area Weightage 6%	**326.46**							
	Final Rate	**5767.46**							
6	Providing laying palin / reinforced cement concrete for Box Drain walls of thicknes 10cm to 20 cm including cenmtering shuttering form work etc. complete as per approved drawiong and design MORTH Specification No. 1500,1700,2200 PCC M 20 Grade upto 0.75 m height using concrete mixture (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)								
	Culvert	Cum							
	Bottom Slab								
	5th cross		2.00	110.00	0.75	0.15	24.75		
	Anganwadi road(adjoining road)		1.00	73.00	0.75	0.15	8.21		
	connecting drain upto govt school		1.00	30.00	0.90	0.15	4.05		
	Muneshwara block main road		1.00	388.00	0.90	0.15	52.38		
	Side Walls								

Sl No.	Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	5th cross		4.00	110.00	0.15	0.60	39.60		
	Anganwadi road(adjoining road)		2.00	73.00	0.15	0.60	13.14		
	connecting drain upto govt school		2.00	30.00	0.15	0.60	5.40		
	Muneshwara block main road		2.00	388.00	0.15	0.60	69.84		
							217.37	11032.48	**2398157.76**
	Basic rate	**10408**							
	Area Weightage 6%	**624.48**							
	Final Rate	**11032.48**							
7	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2016-17)								
	Consider 55Kgs/cum for item No. only RCC Drain Qty	Tonne		217.37	0.055	--	11.96		
							11.96	64243.42	**768351.30**
	Basic rate	**60607**							
	Area Weightage 6%	**3636.42**							
	Final Rate	**64243.42**							
8	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
	5th cross		2.00	110.00	0.75	--	165.00		
	Anganwadi road(adjoining road)		1.00	73.00	0.75	--	54.75		
	connecting drain upto govt school		1.00	30.00	0.90	--	27.00		
	Muneshwara block main road		1.00	388.00	0.90	--	349.20		
							595.95	1834.00	**1092972.30**

Sl No.	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
9	*Providing and fixing* ***RCC Precast cover slab of 250mm thick*** *for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)*								
		Sqm							
	Culverts		3.00	6.50	1.80	--	35.10		
	Culverts		6.00	5.00	1.80	--	54.00		
							89.10	5111.00	**455390.10**
								Total Construction Cost	**5855651.326**
10								**Cost towards Design Report , PMC / Third Party inspection LS**	**58556.51**
11								**Tender premium 10%**	**585565.13**
								Sub Total	**6499772.97**
12								**Miscellaneous and rounding off**	**227.03**
								Total	**6500000.00**

Certificate.

1 *The workspot was inspected and Provisions made in the estimate are adequate and necessary.*
2 *Work Spot comes under BBMP limits.*
3 *The estimate based on PWD CSR for the year 2016-17.*
4 *This work is not split up.*
5 *These works are not taken up in any other grants and free from Defect Liability Period.*
6 *Earlier Improvements taken up in the proposed roads are recorded in earlier road history.*

Assistant Engineer

Assistant Executive Engineer

Executive Engineer 27/01
Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B...
Bangalore - 560 0...
27/01

ADMINISTRATIVE APPROVAL
Accorded For Rs. Sixty five lakhs only
Head of A/c. P-3333
Div. Ref. No. 168/17-18 Date. 27/01/18
AE 27/01
EE(BTP) 27/01

TECHNICAL SANCTION
ADMINISTRATIVE APPROVAL
Accorded For Rs. Rs sixty five lacks only
Head of A/c. P-3333
Div. Ref. No. TS/562/1778 Date. 27.01.18
TAE
EE(YNK)

NAME OF WORK:. Improvements of Roads, drains and culverts at Kodigehalli Ward no 8